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#### 1 [The impact of research on middleware technology](#)

[Wolfgang Emmerich, Mikio Aoyama, Joe Sventek](#)

January 2007 **SI GOPS Operating Systems Review**, Volume 41 Issue 1

**Publisher:** ACM

Full text available: [Pdf](#) (573.57 KB)

Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 51, Downloads (12 Months): 463, Citation

The middleware market represents a sizable segment of the overall Info Technology market. In 2005, the annual middleware license revenue was in the region of 8.5 billion US Dollars. In this article we ...

#### 2 [Scalable multicast based filtering and tracing framework for defeating](#)

[Jangwon Lee, Gustavo de Veciana](#)

January 2005 **International Journal of Network Management**, Volume 15

**Publisher:** John Wiley & Sons, Inc.

Full text available: [Pdf](#) (213.52 KB)

Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 52, Citation

In this paper we present a distributed scalable framework to support on services for defeating distributed denial of service attacks. Our filtering quickly identify a set of boundary filter locations ...

#### 3 [Experiences of designing and deploying intelligent sensor nodes to r](#)

[the field](#)  
[Christos Efstratiou, Nigel Davies, Gerd Kortuem, Joe Finney, Rob Hooper, & June 2007](#) **MobiSys '07: Proceedings of the 5th international conference on mobile systems and services**

**Publisher:** ACM

Full text available: [Pdf](#) (1.59 MB)

Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 137, Citation

The NEMO project is exploring the use of mobile sensor nodes to augment order to ensure compliance with health and safety regulations. In this paper we describe the design and deployment of the NEMO Hand Arm Vibration ...

**Keywords:** ad-hoc networks, deployment, embedded systems, hand-arm mobile systems

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#### 4 [Distributed profiling in a partitioned ambient network](#)

 Volker Bruns, Simon Reymann, Artur Lugmayr

December 2007 **MUM '07**: Proceedings of the 6th international conference on multimedia

**Publisher:** ACM


Full text available:  Pdf (793.58 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 95, Citation

We elaborate a model for distributed profiling and profile sharing in a de proposed solution achieves the goal of supplying devices from the user's content, enabling them to offer personalized services. ...

**Keywords:** personalization, synchronization, user profiling

#### 5 [QDSL: a queuing model for systems with differential service levels](#)

 Shiva Chaitanya, Bhuvan Ugaonkar, Anand Sivasubramaniam

June 2008 **SIGMETRICS '08**: Proceedings of the 2008 ACM SIGMETRICS Measurement and modeling of computer systems

**Publisher:** ACM


Full text available:  Pdf (490.44 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 127, Citation



A feature exhibited by many modern computing systems is their ability they generate for a given input by spending more computing resources improvement comes at the price of degraded performance ...

**Keywords:** differential service levels, dynamic voltage frequency scalin secure storage

#### 6 [Communications of the ACM: Volume 52 Issue 2](#)

 February 2009 Communications of the ACM

**Publisher:** ACM

Full text available:  Digital Edition ,  Pdf (7.09 MB) Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 10130, Downloads (12 Months): 10130,

#### 7 [Privacy from promises to protection: privacy guaranteeing execution](#)

 February 2009 **Mobile Networks and Applications** , Volume 14 Issue 1

**Publisher:** ACM

Full text available:  Pdf (884.98 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 22, Citation

Privacy issues are becoming more and more important especially since converging up to certain extent when using mobile devices. Means that missing. The problem is, as soon as a user provides ...

**Keywords:** P3P, covert channels, location based services, malicious ho techniques

## [Dynamic queue behavior in networks with window protocols](#)

John G. Waciawsky, Ashok K. Agrawala

April 1990 **SIGMETRICS '90**: Proceedings of the 1990 ACM SIGMETRICS modeling of computer systems

**Publisher:** ACM

Full text available:  [Pdf](#) (210.97 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)


**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 20, Citation (

In this paper we employ a deterministic analysis technique to characterize aspects of window protocols. The deterministic behavior of these protocols and the influence of the resources along the physical path are explicitly ...

Also published in:

April 1990 **SIGMETRICS Performance Evaluation Review** Volume 18 Issue 1

## 9 [On combining temporal scaling and quality scaling for streaming MP](#)

 Huahui Wu, Mark Claypool, Robert Kinicki

May 2006 **NOSSDAV '06**: Proceedings of the 2006 international workshop on systems support for digital audio and video


**Publisher:** ACM

Full text available:  [Pdf](#) (184.45 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 25, Citation (




Temporal Scaling and Quality Scaling are both widely-used techniques for streaming video. However, combinations and comparisons of Temporal and Quality Scaling have not been systematically studied. This research extends previous ...

## 10 [Scaling in Games & Virtual Worlds](#)

 Jim Waldo

November 2008 **Queue**, Volume 6 Issue 7


**Publisher:** ACM

Full text available:  [Digital Edition](#),  [Html](#) (28.46 KB),  [Pdf](#) (163.36 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 7547, Downloads (12 Months): 10956, Citation (

I used to be a systems programmer, working on infrastructure used by other engineers. I worked on operating systems. I worked on distributed systems programming languages. I wrote tools. I did all of ...

## 11 [Virtual servers and checkpoint/restart in mainstream Linux](#)

 Sukadev Bhattiprolu, Eric W. Biederman, Serge Hallyn, Daniel Lezcano

July 2008 **SIGOPS Operating Systems Review**, Volume 42 Issue 5

**Publisher:** ACM

Full text available:  [Pdf](#) (864.56 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 42, Downloads (12 Months): 1732, Citation (

Virtual private servers and application checkpoint and restart are two advanced features which place different but related requirements on the way kernel resources are accessed by userspace. In Linux, kernel resources, such as ...

**Keywords:** checkpoint, mobility, reliability, restart, security, survivability

**12** [Analysis and optimization of prediction-based flow control in network](#)



[Umit Y. Ogras](#), [Radu Marculescu](#)

January 2008 **Transactions on Design Automation of Electronic Systems**

**Publisher:** ACM

Full text available: [Pdf](#) (770.20 KB)

Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 297, Citation (6 Weeks): 0, Citation (12 Months): 0

Networks-on-Chip (NoC) communication architectures have emerged recently to address on-chip communication problems. While the NoC architectures may offer advantages over traditional bus-based communication, their performance ...

**Keywords:** Multi-processor systems, congestion control, flow control, network-on-chip

**13** [Trunking of TDM and narrowband services over IP Networks](#)

[James Aweya](#)

January 2003 **International Journal of Network Management**, Volume 13

**Publisher:** John Wiley & Sons, Inc.

Full text available: [Pdf](#) (418.58 KB)

Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 83, Citation (6 Weeks): 0, Citation (12 Months): 0

The recent interest in IP as the vehicle for transporting TDM and narrowband services has created the possibility of using a common transport network for voice, video, and data. This paper discusses how new services can be introduced. A key step ...

**14** [An operating system architecture for network processors](#)



[Steve Muir](#), [Jonathan Smith](#)

October 2005 **ANCS '05: Proceedings of the 2005 ACM symposium on Architectures for network communications systems**

**Publisher:** ACM

Full text available: [Pdf](#) (224.66 KB)

Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 130, Citation (6 Weeks): 0, Citation (12 Months): 0

Network devices have become significantly more complex in recent years, with current devices incorporating one or more general-purpose CPUs as part of their architecture. Such processing capability is motivated by the need to support a wide range of services ...

**Keywords:** network processors, operating systems

**15** [Web browsing performance of wireless thin-client computing](#)



[S. Jae Yang](#), [Jason Nieh](#), [Shilpa Krishnappa](#), [Aparna Mohla](#), [Mahdi Sajjadpour](#)

May 2003 **WWW '03: Proceedings of the 12th international conference on World Wide Web**

**Publisher:** ACM

Full text available: [Pdf](#) (239.90 KB)


Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 110, Citation (6 Weeks): 0, Citation (12 Months): 0

Web applications are becoming increasingly popular for mobile wireless devices. However, wireless networks can have high packet loss rates, which can degrade web browsing performance. An alternative approach is wireless thin-client computing, where the client device only handles the user interface and the server handles the application logic ...

**Keywords:** thin-client computing, web performance, wireless and mobi

# 16 Multi-fidelity storage

 Padmanabhan Pillai, Yan Ke, Jason Campbell

October 2004 **VSSN '04**: Proceedings of the ACM 2nd international workshop on networks

**Publisher:** ACM

Full text available:  Pdf (184.80 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 21, Citation (

Imaging sensors are inherently high bandwidth devices, and application encounter disk or memory limits. Commonly, upon reaching such a limit sampling or overwrite existing data in an oldest-first ...

**Keywords:** variable fidelity, video surveillance, weighted fair-share sto

# 17 A novel scheduling scheme to share dropping ratio while guaranteeing multiCode-CDMA network

Peng-Yong Kong, Kee-Chaing Chua, Brahim Bensaou

December 2003 **IEEE/ ACM Transactions on Networking (TON)**, Volume

**Publisher:** IEEE Press

Full text available:  Pdf (1.14 MB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 24, Citation (

A MultiCode-CDMA network that is capable of providing quality-of-service widespread application in future wireless multimedia networks. However time-sensitive traffic in such a network is challenging ...

**Keywords:** multicode-CDMA, proportional dropping ratio guarantee, up capacity

# 18 ns2-MIRACLE: a modular framework for multi-technology and cross-simulator 2

Nicola Baldo, Federico Maguolo, Marco Miozzo, Michele Rossi, Michele Zorzi

October 2007 **ValueTools '07**: Proceedings of the 2nd international conference on methodologies and tools

**Publisher:** ICST (Institute for Computer Sciences, Social-Informatics and Telecom


Full text available:  Pdf (167.42 KB) Additional Information: [full citation](#), [abstract](#), [bibliometrics](#)

**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 345, Citation

In this paper we present a novel framework for ns2 to facilitate the simulation design of beyond 3G networks. The set of libraries we wrote for this purpose *Cross Layer Extension* for ns2 (MIRACLE). ...

**Keywords:** ambient networks, cross-layer, dynamic libraries, heterogeneous technology


A reliable multicast framework for light-weight sessions and applications  
Sally Floyd, Van Jacobson, Ching-Gung Liu, Steven McCanne, Lixia Zhang  
December 1997 **IEEE/ ACM Transactions on Networking (TON)** , Volume  
**Publisher:** IEEE Press

Full text available:  Pdf (310.74 KB) Additional Information: [full citation](#), [reference](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 140, Citation


**Keywords:** Internetworking, computer network performance, computer

## 20 Stanford WebBase components and applications

 Junghoo Cho, Hector Garcia-Molina, Taher Haveliwala, Wang Lam, Andreas Gary Wesley

May 2006 **Transactions on Internet Technology (TOIT)** , Volume 6 Issue

**Publisher:** ACM

Full text available:  Pdf (609.18 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)

**Bibliometrics:** Downloads (6 Weeks): 24, Downloads (12 Months): 176, Citation

We describe the design and performance of WebBase, a tool for Web re highly customizable crawler, a repository for collected Web pages, an in related page features, and a high-speed content distribution ...

**Keywords:** WebBase Web crawler, distribution, hyperlink indexing, site

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